Commentary

Adapting and retesting evidence-based child maltreatment prevention programs: a case study in Canada

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This special issue of Health Promotion and Chronic Disease Prevention in Canada is timely, as child maltreatment is a significant public health problem; globally, the number affected is at least in the hundreds of millions. One-quarter of adults report having been physically abused and over one-third emotionally abused as children; one in 5 women and one in 13 men report having been sexually abused.1-3 Recent national surveys of violence against children conducted in Africa and in other low- and middle-income countries reveal rates of childhood physical, sexual and emotional abuse even higher than the global rates.4

“Imagine;” Dr James Mercy, Director of the Violence Prevention Division at the US Centers for Disease Control and Prevention5 (US-CDC) suggests, “that you woke up this morning and newspaper headlines said that scientists had discovered a new disease. The scientists reported that up to 1 billion children worldwide were exposed to this disease every year. And that over the course of their lifetimes children exposed to this disease were at greater risk for mental illnesses like depression and anxiety disorders; at greater risk for chronic diseases such as diabetes, heart disease, and cancer; at greater risk of infectious diseases like HIV; and, if that wasn’t enough, at greater risk for involvement in social problems like crime and drug abuse. If we had such a disease, what do you think we’d do? The truth is we do have such a “disease”; it’s violence against children.”

Several organizations, including US-CDC, the World Health Organization, the United Nations Children’s Fund and the Public Health Agency of Canada, have identified child maltreatment prevention as a global health priority and have supported efforts to take sustained and effective action to prevent it. But there is a major obstacle. Currently, strategies to prevent child maltreatment that are both demonstrably effective and scalable to the national population are rare.

The Nurse–Family Partnership (NFP) is one of the few.

The NFP was developed in the United States, and the three randomized controlled trials that demonstrated its effectiveness at preventing child maltreatment (by almost one-half) and many other negative outcomes have all been conducted in the US. As this special issue rightly emphasizes, and as the literature of cross-cultural adaptation of evidence-based interventions makes clear,6-8 we cannot assume that the NFP will produce the same impressive results when implemented elsewhere, and it is necessary for it to undergo a careful process of adaptation, retesting and refining to ensure it remains effective. Canada is making a concerted—and exemplary—effort to this effect.

Jack et al.9 describe the rigorous process of initial adaptation, feasibility assessment and acceptability the NFP is undergoing in Ontario and British Columbia. Perceptions of the health care and social service professionals involved in referrals to the NFP and who provide services to NFP families is the focus of the paper by Li et al.10 These researchers address the critical challenge of integrating NFP into an existing network of services. Hovdestad et al.11 examine whether it is the youngest mothers—whom the NFP usually targets—whose children are at highest risk of negative outcomes. Jack et al.9 describe a process of adaptation and re-evaluation that goes beyond the four-step model required by Dr. David Olds, the program developer, and his staff at the Prevention Research Center at the University of Colorado Denver12 They included an additional process evaluation and a study examining potential biological mechanisms linking the intervention and the behavioural outcomes in children. This augmented process will thus include six phases: (1) adaptation; (2) assessment of feasibility and acceptability; (3) a randomized controlled trial to evaluate effectiveness; (4) a process evaluation; (5) a study of potential biological mechanisms; and (6) replication and expansion. The rigour of the process and the fact that it is being so carefully documented, through these papers among other means, will contribute to developing an empirically validated method for the cross-country and cross-cultural adaptation of child maltreatment prevention programs.13-15

Jack et al.9 raise some difficult questions concerning the process of cross-cultural and

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cross-context adaptation and evaluation. These questions are likely to become stark as the NFP and similar interventions are implemented in lower-resource countries that are culturally distant from the countries that developed the interventions. There is a consensus among the different models and frameworks for cross-cultural and cross-context adaptation that it is critical to maintain fidelity to the essential—or causally effective—components of the intervention so that it preserves its effectiveness in the new setting. To do so, however, requires these components be empirically identified through methods such as decomposing trials, mediational analyses and micro-trials. The extent to which the 18 model elements specified by the NFP are causally effective and how faithfully they each have to be implemented before the intervention begins to lose its effectiveness remain unclear.

The study by Li et al. points to one such possible essential ingredient, the one-to-one and long-term “therapeutic” relationship between the public health nurse and the client. This study highlights the credibility that the public health nurse and the possible essential ingredient, the one-to-one relationship, that have to be implemented before the intervention begins to lose its effectiveness remain unclear.

This careful process of adaptation and retesting of the NFP underway in Canada holds great promise for the field of child maltreatment prevention globally. It is hoped that this process will contribute to developing empirically based methods for cross-country and cross-cultural adaptation and validation, which are currently sorely lacking and, without which, it is unlikely that evidence-based interventions can ever sufficiently expand globally to prevent this “disease”—one that affects hundreds of millions of children around the world.

**References**


